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BIBLIOGRAPHY OF SOVIET DEVELOPMENTS IN MAGNETOHYDRODYNAMICS

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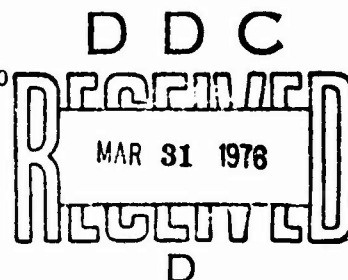
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TABLE OF CONTENTS

Introduction.	ii
1. MHD General	1
2. Design and Development	4
3. Performance and Testing.	16
4. Materials, Components and Auxiliaries	25
5. Duct Engineering and Fluid Dynamics	30
6. Magnetohydrodynamic Theory.	42
7. List of Source Abbreviations	53

INTRODUCTION

This bibliography has been compiled by Informatics Inc. in response to an ARPA contractual requirement to monitor current Soviet developments in the field of magnetohydrodynamics. The period covered is 1975, and includes all known references to MHD topics in open-source Soviet bloc material published or cited in that year.

In so broadly-based a topic as MHD, many different disciplines provide pertinent input. Thus in addition to publications expressly devoted to MHD, there is a large body of articles from journals on high temperature combustion, fluid dynamics, refractory materials, plasma physics, magnetics, etc. which apply to various aspects of magnetohydrodynamics. For the present purpose the selections have been generally limited to those relevant to MHD power generation, although a much broader inclusion could be justified. The bibliography nevertheless indicates a wide range of sources; in addition to the regular serial journals there were over 60 publications of the collection, proceedings or monograph type appearing in 1975 alone in the USSR on MHD. Regrettably, many of this type of special publication are often unobtainable outside the USSR, owing to the Soviet practice of frequently publishing them in very small numbers.

For the sake of consistency, the topic breakdown used is the same as that of the comprehensive ERDA bibliography on magnetohydrodynamics,* published in 1975, with the exception that we have not included electrohydrodynamics as a topic. Again, with an enlarged coverage a more detailed topic breakdown than the six assigned categories herein would probably be more useful in future coverage of the Soviet MHD material. Russian sources are generally

*Magnetohydrodynamics - power generation and theory: a bibliography. USERDA, November 1975, no. TID-3356.

abbreviated for simplicity; the full titles are listed at the end of the bibliography. A parenthesized entry (RZh, KL, etc.) stands for a secondary source in which the citation appears; all other cited sources are available in the Informatics Library. Russian authors publishing in U.S. journals have generally been omitted.

In summary, while not an exhaustive treatment of the subject, this collection is offered as a reasonably comprehensive listing of significant Soviet MHD publications in 1975.

1. MHD General

1. Barinberg, A. D., et al. Review of work by Donetsk scientists in applied MHD. MG, no. 1, 1975, 111-117.
2. Chursin, M. M. Magnitogidrodinamicheskiye generatory. Ucheb. posobiye (MHD generators. Basic text.) Moskva, 1974, 183 p. (KL, 29/75, no. 25644)
3. Elektroenergetika i magnitnaya gidrodinamika. Sbornik statey. (Electrical energy and magnetohydrodynamics. Collection of articles). Kiyev, Tekhnika, 1974, 208 p. (RZhF, 2/75, 2G160K)
4. Electromechanics, automation and applied magnetogasdynamics. Moscow, 1974, 158 p. (RZhMekh, 1/75, 1B82).
5. Foliforov, V. M. All-Union technical seminar on use of MHD pumps and chokes in the economy. MG, no. 4, 1975, 15-152.
6. Golovachov, V. MHD - the modern way of generating electricity. Moscow News, no. 45, Nov. 16-23, 1974, 11.
7. Kirillin, V. A., et al. Prospects for MHD energy conversion. IN: Sb 41, 1975, 3-16. (RZhElektrotekhnenerg, 11/75, 11F3).
8. Magnitogidrodinamicheskiye i elektrofizicheskiye kharakteristiki potokov provodyashchego gaza (Magnetohydrodynamic and electrophysical characteristics of conducting gas flow). IN: Sb 32, no. 8, Moskva, 1973, 148 p. (RZhElektrotekhnenerg, 1/75, 1F37).
9. Magnitogidrodinamicheskiye ustanovki. Sbornik statey (Magnetohydrodynamic devices. Collection of articles). Inst. vysokikh temperatur, Moskva, 1975, 126 p. VAN, no. 10, 1975, 132.

10. Mikel'son, A. E., and A. O. Tsebers. Ural conference on MHD applications in metallurgy. Perm', July 2-5, 1974. MG, no. 4, 1974, 152-153. (RZhMekh, 5/75, 5B48)
11. Povkh, I. L., et al. Magnitnaya gidrodinamika v metallurgii (MHD in metallurgy). Moskva, Metallurgiya, 1974, 240 p. (RZhMekh, 5/75, 5B54).
12. Shelkov, Ye. M. MHD conversion of electrical energy. VAN, no. 12, 1975, 92-95.
13. Sovetsko-amerikanskiy kollokvium po MGD preobrazovaniya energii, 1-y, Moskva, 1974 (First Soviet-American Colloquium on MHD Conversion of Energy, Moscow, 1974). Inst. vysokikh temperatur, AN SSSR. Moskva, 1974, 395 p. (KLDV, 8/75, no. 14150)
14. Sukhorukov, V. V. Matematicheskoye modelirovaniye elektromagnitnykh poley v provodyashchikh sredakh (Mathematical modeling of e-m fields in conducting media). Moskva, Energetika, 1975, 152 p. (RZhMekh, 11/75, 11B63)
15. Tsinober, A. B. Work of the Riga seminar on turbulent MHD flows. MG, no. 3, 1974, 156-157. (RZhMekh, 3/75, 3B44)
16. Vasil'yev, N. N., and A. V. Nedospasov. Use of MHD generators in nuclear plants. IAN Energ, no. 6, 1975, 73-78.
17. Vos'moye Rizhskoye soveshchaniye po magnitnoy gidrodinamike, T. 3. MGD-metody i ustroystva (8th Riga Conference on magnetohydrodynamics, Vol. 3, MHD methods and installations). Riga, 1975, 144 p. (RZhElektrotekhenerg, 10/75, 10F1)
18. Vsesoyuznaya konferentsiya po primeneniya magnitnoy gidrodinamiki v metallurgii. Seminar po mekhanika sploshnykh sred. (All-Union conference on MHD applications in metallurgy. Seminar on mechanics of continuous media). Perm'. 1974, 85 p. (RZhF, 2/75, 2G169K)

19. Wehner, F. 20,000 meters under the Pamirs [MHD generator used for seismic sounding]. Neues Deutschland, 6/7 Sept. 1975, p. 16.

2. Design and Development

20. Abramova, K. B. et al. Magnetohydrodynamic instability of liquid and solid conductors. Destruction of conductors by electric current. ZhETF, v. 69, no. 6, 1975, 2007-2022.
21. Alikishibekova, T. M. et al. Combustion chamber for an MHD generator operating with liquid fuel (mazut). IN: Tr 12, v. 20, 1973, 259-265. (LZhS, 47/75, no. 157494).
22. Antonov, Ye. Ye., et al. Spectral studies on working material parameters of an open cycle MHD generator. IN: Sb 35, no. 1, 1974, 115-124, (RZhElektrotekhnenerg, 2/75, 2F20)
23. Apukhovskiy, A. I., and A. P. Rashchepkin. Inverting a D-C current containing complex ripple spectra. IN: Sb. 35, no. 1, 1974, 41-47. (RZhF, 1/75, 1G262).
24. Apukhovskiy, A. I. Study of dynamic processes in low-temperature plasma by harmonic analysis. IN: Sb 35, no. 1, 1974, 35-41. (RZhElektrotekhnenerg, 2/75, 2F10)
25. Asinovskiy, E. I., et al. Study on performance of electric arc electrodes for an MHD generator. TVT, no. 4, 1975, 830-835.
26. Barinberg, A. D., et. al. Modeling of MHD devices. MG, no. 2, 1975, 115-121.
27. Bazarov, G. P. End losses in series-wound MHD devices. MG, no. 2, 1975, 75-80.
28. Bazarov, G. P., and E. N. Kufa. On distribution of electric parameters and energy characteristics in the end zones of an MHD module. IN: Sb. 39, 1975, 93-101. (RZhElektrotekhnenerg, 10/75, 10F4)

29. Bazarov, G. P., and E. N. Kufa. On the distribution law of induction in end zones of iron-free elliptic magnetic systems for an MHD installation. MG, no. 2, 1975, 147-148.
30. Belyakov, V. P., et al. On energy demand for supplying oxygen to a commercial power system with MHD and turbo generators. IN: Sb 33, no. 6, 1975, 18-24, (RZhElektrotekhnenerg, 12/75, 12F29)
31. Belykh, V. I. Calculating the v-a characteristic at the electrode boundary layer in a thermally nonequilibrium dense plasma. ZhPMTF, no. 5, 1974, 129-132. (RZhF, 3/75, 3G7)
32. Bertinov, A. I., et al. Efficiency of compensating induced magnetic field in MHD channels with feedback busses. MG, no. 3, 1974, 113-118. (RZhElektrotekhnenerg, 3/75, 3F15)
33. Bituryn, V. A., et al. Engineering methods for computing channel flow in an MHD generator. TVT, no. 4, 1974, 817-826. (RZh-Elektrotekhnenerg, 1/75, 1F38)
34. Boyko, Yu. V. Correlative analysis of power generated by pulsating liquid metal flow in a traveling e-m field. IN: Sb 13, 1974, 168-173. (RZhElektrotekhnenerg, 3/75, 3F18).
35. Breyev, V. V. et al. K raschetu optimal'nogo MGD-generator (On calculating an optimum MHD generator). In-t atom. energ., IAE-2390 Moskva, 1974, 28 p. (RZhF, 6/75, 6G295)
36. Breyev, V. V., and V. P. Panchenko. Quasi-unidimensional computation method for an MHD generator with approximated boundary layer. MZhiG, no. 4, 1974, 139-145. (RZhMekh, 1/75, 1B27)
37. Brzhezitskiy, V. A., and N. I. Mazur. Computation method for thermodynamic properties of the working material in an MHD generator. IN: Sb 35, no. 1, 1974, 160-173. (RZhElektrotekhnenerg, 2/75, 2F25)

38. Brzhezitskiy, V. A., and N. I. Mazur. Analysis of electrophysical properties of the working material in an MHD generator. IN: Sb 5, no. 1, 1974, 174-180. (RZhElektrotekhenerg, 2/75, 2F26)
39. Brzhezitskiy, V. A. On approximating the electric conductivity of a low-temperature plasma. IN: Sb 35, no. 1, 1974, 180-185. (RZhElektrotekhenerg, 2/75, 2F27)
40. Chemeris, V. T. An MHD power amplifier with distributed gain. IN: Sb 35, no. 1, 1974, 328-337. (RZhElektrotekhenerg, 2/75, 2F41)
41. Chemeris, V. T. Stator magnetic field and coil impedance of an induction machine with a uniform ladder winding. IN: Sb. 35, no. 1, 1974, 337-351. (RZhElektrotekhenerg, 2/75, 2F42)
42. Denisov, Yu. N., et al. Voltage and current distribution in an MHD channel with an external azimuth magnetic field. MG, no. 3, 1975, 75-79.
43. Draytsun, I. A. Evaluating computation error on heat and mass transfer in the channel, under multimode operating conditions of an MHD generator. IN: Sb 35, no. 1, 1974, 243-252. (RZhElektrotekhenerg, 2/75, 2F33)
44. Freyberg, Ya. Optimizing the geometry of an MHD toroidal dynamo model. MG, no. 3, 1975, 3-7.
45. Fursenko, A. A., and A. A. Shmidt. On the calculation of axially symmetric flow of a nonequilibrium ionized gas in electrical and magnetic fields. MG, no. 3, 1975, 149-150.
46. Garbuzov, V. N. and Ye. I. Zhanzhina. Calculating an open-cycle MHD plant, with allowance for axial nonuniformity of the magnetic field. IN: Sb. 33, no. 3, 1972, 18-34. (LZhS, 26/75, no. 85037)

47. Garbuzov, V. N., et al. Design of an MHD power plant with nitric oxide recovery. IN: Sb 33, no. 6, 1975, 6-14. (RZhElektrotekhenerg, 12/75, 1]F5).
48. Garda, A. N., et al. On the rate of periodic temperature changes at the input of an MHD generator operating with gaseous nuclear fuel. IN: Sb 33, no. 6, 1975, 36-40. (RZhElektrotekhenerg, 11/75, 11F30)
49. Gekht, G. M. Integral characteristics of an alternating current conduction machine. MG, no. 3, 1974, 125-130. (RZhElektrotekhenerg, 3/75, 3F19)
50. Gel'fgat, Yu. M., and L. A. Gorbunov. Calculation of spatial distribution of e-m forces in a profiled tube with an axially-applied electrical current. MG, no. 3, 1975, 124-128.
51. Gel'fgat, Yu. M., and A. L. Gudkov. On the design of MHD chokes for regulating liquid metal flow. MG, no. 3, 1975, 129-134.
52. Getselev, Z. N., et al. Calculation of electromagnetic crystallized parameters for a round casting. MG, no. 3, 1975, 119-123.
53. Ginzburg, A. S., et al. On the possibility of flow measuring by a conduction method without flowmeter calibration. MG, no. 2, 1975, 127-130.
54. Gol'tsova, Ye. I., and I. T. Alad'yev. Limit efficiency values of a liquid metal MHD generator in a binary thermal electric plant. IN: Sb 33, no. 6, 1975, 80-84. (RZhElektrotekhenerg, 11/75, 11F35)
55. Goncharov, M. V. Reaction field of the armature of an MHD machine, with allowance for anisotropy of the excitation poles. IN: Tr 10, no. 286, 59-64. (RZhElektrotekhenerg, 3/75, 3F20)

56. Gorislavets, Yu. M., and O. B. Druzhinin. Optimization of an asynchronous liquid-metal MHD generator. IN: Sb 35, no. 1, 1974, 320-327. (RZhElektrotekhenerg, 2/75, 2F40)
57. Gorodzha, L. V., and A. P. Rashchepkin. On the structure of end currents in an MHD channel with continuous electrodes. MG, no. 2, 1975, 61-67.
58. Gutman, I. I., et al. Computing the thermodynamic functions and electric conductivity of a uranium hexafluoride plasma. IN: Sb 33, no. 6, 1975, 65-69. (RZhElektrotekhenerg, 11/75, 11F31).
59. Ivanov, P. P. et al. Studying the characteristics of an MHD plant for covering quasi-peak loads. Teploenergetika, no. 11, 1975, 8-13.
60. Ivanov, V. A., et al. Analysis of layout solutions for a 1200 MW power plant with an MHD generator and turbogenerator. IN: Sb 33, no. 5, 1974, 8-17. (RZhElektrotekhenerg, 1/75, 1F48)
61. Ivanov, V. V. Inductive MHD machine. Author's Certificate USSR, no. 430473, published Nov. 2, 1974. (RZhElektrotekhenerg, 8/75, 8F21P)
62. Ivanov, V. V. Transverse edge effect in a two-channel linear induction pump. MG, no. 4, 1975, 105-109.
63. Karp, I. N., et al. Development and study of the combustion chamber for an experimental MHD generator. IN: Sb 35, no. 1, 1974, 48-57. (RZhElektrotekhenerg, 2/75, 2F11)
64. Kim, K. I. Analytical scheme for a binary power plant with a liquid metal MHD generator. VAN UkrSSR, no. 6, 1974, 72-79. (RZhElektrotekhenerg, 1/75, 1F58)

65. Kim, K. I., et al. Electromagnetic stabilization of a moving electroconductive fluid layer. IN: Sb 35, no. 1, 301-304. (RZh-Elektrotekhnenerg, 2/75, 2F36)
66. Kim, I. I., et al. Study of a self-contained liquid metal MHD device. IN: Sb 35, no. 1, 1974, 293-300. (RZhElektrotekhnenerg, 2/75, 2F35)
67. Kirillov, I. R., and A. P. Ogorodnikov. MHD induction machine with and expansion channel. I. Theory. MG, no. 2, 1975, 68-74.
68. Kirillov, V. V. et al. Study of heat exchange and boundary layers in an MHD generator duct with varying wall temperature. Teploenergetika, no. 11, 1975, 19-23.
69. Kirshtein, G. Kh., and V. I. Yakushonok. Correlation between the output signal and the vortex component of electric field in a conduction flowmeter. MG, no. 1, 1975, 155-157.
70. Kolesnichenko, A. F. Analysis of combined operation of an accelerator and piston shaper in a liquid metal MHD device. IN: Sb 35, no. 1, 1974, 305-310. (RZhElektrotekhnenerg, 2/75, 2F37)
71. Kolesnickenko, A. F., and V. I. Levchenko. Computing the optimal length and counterpressure for accelerating elements of a compressed-flow liquid-metal MHD system. IN: Sb 35, no. 1, 1974, 311-316. (RZhElektrotekhnenerg, 2/75, 2F38)
72. Konyayev, A. Yu., et al. Allowing for shunt currents in calculating the magnetic circuit of an induction machine. MG, no. 4, 1974, 82-86. (RZhMekh, 5/75, 5B43)

73. Korsunskiy, L. M. Characteristics of the spatial averaging region of conductive anemometers with local magnetic field. MG, no. 4, 1975, 134-138.
74. Korsunskiy, L. M. Metrological possibilities of conducting anemometers with uniform external magnetic field. MG, no. 2, 1975, 122-126.
75. Kosachevskaya, Ye. A. Magnetohydrodynamic viscoplastic boundary layer for a constant-velocity external boundary. IN: Sb 3, 1974, 15-17. (RZhMekh, 1/75, 1B25)
76. Kos'kin, Yu. P., and A. Yu. Kos'kin. Vector diagrams for multimode MHD machines. MG, no. 2, 1975, 89-94.
77. Kucheryavyy, I. V. et al. Method for calculating initial material composition for a combustion-product plasma. IN: Sb. 35, no. 1, 1974, 133-149. (RZhElektrotekhnenerg, 2/75, 2F23)
78. Kucheryavyy, I. V. et al. Analysis of errors in calculating initial material composition for a combustion-product plasma. IN: Sb 35, no. 1, 1974, 149-160. (RZhElektrotekhnenerg, 2/75, 2F24)
79. Kuznetsova, T. D., and I. G. Panevin. Estimation of channel arc development, allowing for e-m acceleration of plasma. Summaries of reports. IN: Sb 12, 1973, 53-56. (RZhMekh, 3/75, 3B50)
80. Lelevkin, V. M., et al. Calculation of an open high-current arc. IN: Sb 12, 1974, 60-63. (RZhMekh, 3/75, 3B51)
81. Levental', G. B. et al. Analyzing the energy characteristics of a large MHD power plant. Teploenergetika, no. 11, 1975, 5-8.
82. Levental', G. B., et al. Technical and economical factors for an MHD plant working at peak load. IN: Sb 33, no. 6, 1975, 3-16. (RZhElektrotekhnenerg, 12/75, 12F7)

83. Lukashenko, V. I. Device for experimental study of relaxation processes in an alkali plasma. IN: Sb 35, no. 1, 1974, 124-128. (RZhElektrotekhenerg, 2/75, 2F21)
84. Maryenko, A. F. Model of a sectioned duct for a supersonic Faraday MHD generator as a control device. IN: Trudy TsNIIKA, no. 40, 1974, 49-53. (LZhS, 44/75, no. 147523)
85. Mazur, N. I., and I. A. Draytsun. Study of combined heat and mass transfer in an MHD channel under steady state and transient regimes. IN: Sb 35, no. 1, 1974, 230-243. (RZhElektrotekhenerg, 2/75, 2F32)
86. Medin, S. A. End effect in an optimal plane MHD generator with anisotropic conduction. MG, no. 3, 1974, 99-104. (RZhMekh, 2/75, 2B48)
87. Merkulov, V. I., et al. Study of electromagnetic and magnetohydrodynamic phenomena in traveling magnetic fields by the method of grids. IN: Sb 13, 1974, 173-181. (RZhElektrotekhenerg, 3/75, 3F16)
88. Mizonov, V. Ye. Study of a diffuser in a binary system with an MHD generator and gas turbine unit. IN: Sb 33, no. 6, 1975, 69-73. (RZhElektrotekhenerg, 11/75, 11F17)
89. Morozov, A. Ye., et al. Methods for selecting optimal binary cycle parameters for a nuclear plant with a liquid metal MHD generator. IN: Sb 41, 1975, 102-109. (RZhElektrotekhenerg, 11/75, 102-109)
90. Mostinskiy, I. L. et al. Efficiency of various methods for injection and recovery of seed in an open-cycle MHD plant. Teploenergetika, no. 11, 1975, 16-18.
91. Ogurechnikov, L. A., et al. Mathematical model for study and complex performance optimization of commercial power plants using an open-cycle MHD generator. IN: Sb 33, no. 6, 1975, 24-30. (RZhElektrotekhenerg, 12/75, 12F6)

92. Ovsyannikov, A. M. Study of combined flows in radial nozzles of MHD generators. IN: Sb 24, v. 23, 1974, 103-125. (RZhMekh, 8/75, 8B46)
93. Parnev, L. Kh., et al. Diagram of energy flows and operating modes of a [variable] MHD power plant. IN: Sb. 33, no. 7, 1975, 3-8. (RZhElektrotekhnenerg, 11/75, 11F19)
94. Petrazhitskiy, A. S. Mathematical model of linear induction in an MHD machine. MG, no. 4, 1975, 99-104.
95. Popyrin, L. S., et al. Analysis of technical and economic aspects of a thermal electric station with MHD generators. IN: Sb 33, no. 5, 1974, 17-23. (RZhElektrotekhnenerg, 1/75, 1F51)
96. Popyrin, L. S., et al. Mathematical model of a steam generator for an electric station with MHD generators. IN: Sb 33, no. 5, 1974, 23-30. (RZhElektrotekhnenerg, 1/75, 1F50)
97. Popyrin, L. S., et al. Selection of optimal schemes and parameters of a liquid metal MHD device. IN: Sb 33, no. 7, 1975, 59-64. (RZhElektrotekhnenerg, 11/75, 11F33)
98. Pushkarev, O. Ye., and V. A. Reysig. Solving variational problems of an MHD generator with a dissociative working material. IN: Sb 33, no. 5 1974, 51-56. (RZhElektrotekhnenerg, 1/75, 1F40)
99. Rashchepkin, A. P. Electric processes in the end regions of an MHD channel with segmented electrodes. MC, no. 3, 1975, 93-100.
100. Rogachev, A. P., et al. Effect of preheat temperature, caused by thermochemical processing of fuel, on the thermal efficiency of an MHD plant. TVT, no. 4, 1975, 902-904.

101. Rogachev, A. P., et al. Evaluation of economic efficiency of combining MHD power plants with optimized MHD generators. IN: Sb 33, no. 5, 1974, 30-34. (RZhElektrotekhnenerg, 1/75, 1F47)
102. Sedin, V. A., and M. V. Khripunov. Simulating a three-dimensional electric field in molten metal in a casting under electromagnetic pressure. MG, no. 2, 1975, 112-114.
103. Shilova, Ye. I. Purging of nonconducting particles from liquid metals in a current-induced magnetic field. MG, no. 2, 1975, 142-144.
104. Shumyatskiy, B. Ya., et al. Study of optimal characteristics of an MHD generator for a combined open-cycle MHD plant. TVT, no. 2, 1975, 407-412.
105. Sityurin, V. A., and B. M. Burakhanov. Numerical determination of plane stationary electric fields in MHD generator ducts with complex electrical loading. MZhiG, no. 3, 1975, 186 p.
106. Smil'gyavichyus, A. Yu., et al. Dynamic braking force of a linear induction MHD machine. MG, no. 3, 1975, 150-153.
107. Stepanov, V. G., et al. Thermodynamic analysis of an electric station cycle with an MHD generator topping plant and thermochemical regeneration of semicoke. IN: Sb. 33, no. 5, 1974, 3-8. (RZhElektrotekhnenerg, 1/75, 1F49)
108. Strashinin, E. P., et al. Electrotechnical study of an experimental energy device with an MHD generator. IN: Sb 35, no. 1, 1974, 15-22. (RZhElektrotekhnenerg, 2/75, 2F7).
109. Sushov, S. P. Energetics of utilizing the MHD generator in industry. IN: Sb 33, no. 5, 1974, 34-38. (RZhElektrotekhnenerg, 1/75, 1F46).

110. Tiysmus, Kh. A. Hydromechanical characteristics of linear induction MHD engines. Elektrichestvo, no. 10, 1975, 39-42.
111. Tubin, A. A., and L. P. Gorbachev. Effect of the magnetic field on the separation of liquid ferromagnetic mixtures in a thermodiffusion column. MG, no. 1, 1975, 83-86.
112. Usovershenstvovaniye sistemy MGD-elektrostantsiy. Sbornik. Sokr. per. s angl. (Development of an MHD power station system. Collection of abbreviated translations from English). Moskva, Atomizdat, 1974, 55 p. (KLDV, 3/75, no. 4411)
113. Velikhov, Ye. P., et al. Possibility of MHD energy conversion of pulsed thermonuclear reactors. IN: Fusion Reactor design probl. Proc. IAEA Workshop, Culham. Vienna, 1974, 235-239. (RZhElektrotekhenerg, 5/75, 5F4)
114. Vitkovskaya, O. N., and A. P. Rudakova. Air flow computation for an MHD acceleration channel, with allowance for resistivity and heat transfer at the channel wall. IN: Tr 2, v. 5, no. 4, 1974, 100-105. (RZhMekh, 2/75, 2B42)
115. Vitkovskiy, I. V., et al. Calculation of an MHD choke. MG, no. 4, 1975, 123-126.
116. Vol'dek, A. I., and O. S. Shchukin. Possibility of longitudinal edge effect reduction in linear induction MHD machines, by combining several three-phase windings with different pole pitches. MG, no. 4, 1975, 149-150.
117. Vol'dek, A. I., and O. S. Shchukin. Study on characteristics of a linear induction MHD machine with three-phase coil compensation of end-effect. MG, no. 3, 1975, 101-106.

118. Voprosy gazotermodinamiki energoustanovok (Problems of gas thermodynamics of energy systems). Sb. nauchn. tr., Vyp. 1 Khar'kov aviats. in-t, Khar'kov, 1974, 164 p. (RZhElektrotekhennerg, 8/75, 8F2K)
119. Vutsens, A. P. Computation of e-m heating with an inductor inside a cylindrical cavity. MG, no. 3, 1975, 135-142.
120. Yakhot, A. O. Matrix method of computing MHD generator characteristics. MG, no. 2, 1975, 81-88.
121. Yakovlev, V. S. et al. Design features of a magnetic system for MHD experiments. IN: Sb 35, no. 1, 1974, 77-84. (RZhElektrotekhennerg, 2/75, 2F14)
122. Yakubenko, A. Ye. Study of end losses in a planar channel with terminal electrodes, using arbitrary magnetic Reynolds numbers. IN: Tr 7, no. 32, 1974, 149-157. (RZhMekh, 6/75, 6B19)
123. Zakharko, Yu. A., et al. On decomposition effects of potassium carbonate drop evaporation in a high-temperature gas flow. TVT, no. 2, 1975, 386-391.
124. Zatelepin, V. N. Effect of heterogeneous conduction on end effects in an MHD generator with continuous electrodes. MG, no. 3, 1975, 85-92.
125. Zholudov, Ya. S., and M. M. Nekhamin. Computation of dynamic boundary layer and friction in an MHD channel. IN: Sb 33, no. 5, 1974, 78-84. (RZhElektrotekhennerg, 1/75, 1F41)
126. Zubatov, N. G. et al. Dimensions of the energy exchanger and its real power efficiency in an MHD system. IN: Sb 33, no. 3, 1972, 64-71. (LZhS, 26/75, no. 85036)

3. Performance and Testing

127. Afonin, I. L. et al. Experimental MHD liquid metal dosimeter, with integral use dosage. IN: Tr 11, no. 336, 1973, 123-131. (LZhS, 44/75, no. 147499)
128. Alikishibekova, T. M. Plasma from the combustion of mazut and its use as the working material in an MHD generator. IN: Sb 36, 1974, 90-91. (RZhElektrotekhnenerg, 4/75, 4F11)
129. Andreyev, V. I., et al. Experimental study of an MHD conduction pump for electrolytes. MG, no. 4, 1974, 127-131. (RZhMekh, 5/75, 5B44)
130. Aref'yev, K. M., et al. Separation of small alkali metal seed from supersaturated and saturated steam and gas mixtures. IN: Sb 33, no. 6, 1975, 60-65. (RZhElektrotekhnenerg, 12/75, 12F18)
131. Babkin, G. V. et al. Stationary acceleration of a halide plasma in external crossed electric and magnetic fields. ZhPMTF, no. 6, 1974, 27-30. (RZhF, 4/75, 4G268)
132. Baranov, G. A., et al. Device for studying a jet liquid metal induction MHD generator with free flow of the liquid. MG, no. 4, 1974, 104-108. (RZhMekh, 5/75, 5B46)
133. Baranov, N. N. et al. Experimental study of discharge at the electrodes in a laboratory device. TVT, no. 5, 1974, 1078-1084.
134. Baranov, V. Yu. et al. Deceleration of supersonic plasma flow in a magnetic field. DAN SSSR, v. 219, no. 6, 1974, 1338-1340. (RZhMekh, 5/75, 5B36)

135. Baushev, B. N., et al. Effect of longitudinal magnetic field on electroconductive liquid flow in a circular pipe with abrupt narrowing at the inlet. MZhiG, no. 6, 1974, 164-166. (RZhMekh, 3/75, 3B52)
136. Bazeyev, Ye. T., et al. Study on the separation of two-phase compressed flows. IN: Sb 38, no. 1, 1974, 123-128. (RZhElektrotekhnenerg, 8/75, 8F17)
137. Belinskiy, V. V., et al. On plasma and electric field parameters in an MHD generator channel. IN: Sb 35, no. 1, 1974, 3-15. (RZhElektrotekhnenerg, 2/75, 2F6)
138. Beloglazov, A. A., et al. Experimental determination of Hall parameter from local characteristics of an MHD generator. TVT, no. 5, 1975, 1059-1063.
139. Belykh, A. D., et al. Study of a high-efficiency MHD generator with nonequilibrium conductivity. TVT, no. 5, 1975, 1064-1071.
140. Blum, E. Ya., and Yu. A. Mikhaylov. Experimental study of heat and mass transfer in turbulent MHD flows. IN: Sb 23, 1975, 161-168. (RZhMekh, 8/75, 8B23)
141. Bobkov, A. A., et al. Effect of coefficient of surplus oxidants on electrical characteristics of an MHD generator. TVT, no. 6, 1975, 1314-1316.
142. Bondin, Yu. S., et al. Testing of the U-25 pilot industrial plant. IN: Sb 41, 1975, 75-81. (RZhElektrotekhnenerg, 11/75, 11F6)
143. Boyko, Yu. V., et al. Experimental study of interphase heat exchange in a compressed liquid-gas flow. IN: Sb 33, no. 7, 1975, 72-77. (RZhElektrotekhnenerg, 11/75, 11F36)
144. Burenkov, D. K., et al. Preliminary study on the operation of an open-cycle MHD generator with ash present in the combustion products. TVT, no. 5, 1975, 1128-1130.

145. Busurina, L. N., et al. Formation and role of the T-layer in an MHD energy conversion process using interaction of lithium plasma and a magnetic field. IN: Inst. prikl. mat. AN SSSR, 1974, 51 p. (RZhF, 1/75, 1G278)
146. Butsenieks, I. E., et al. Experimental study of MHD processes in electrolytic slag welding. MG, no. 3, 1975, 143-148.
147. Butsenieks, I. E., and E. V. Shcherbinin. Conductive fluid flow measurements with a tube diaphragm in a magnetic field. MG, no. 2, 1975, 131-135.
148. Davydov, Yu. V., and P. A. Usachev. Theoretical and experimental evaluation of ferromagnetic system behavior in magnetic and shear fields. IN: Sb 17, 1974, 46-84. (RZhMekh, 5/75, 5B40)
149. Degtev, Yu. G., et al. Sensor for measuring the electric conductivity of combustion products. IN: Sb 33, no. 7, 1975, 46-51. (RZhElektrotekhenerg, 11/75, 11F26)
150. Derevyanko, V. A., and V. S. Sokolov. On flow separation from channel electrodes, under strong hydromagnetic interaction caused by effects of anisotropic conductivity. IAN SO SSSR, no. 8, 1974, 21-26. (RZhMekh, 1/75, 1B48)
151. Donskoy, K. V., et al. Conductivity of multicomponent gas mixtures with halides. IN: Sb 33, no. 7, 1975, 51-66. (RZhElektrotekhenerg, 12/75, 12F15)
152. Dudko, D. Ya. Ion component of a potassium discharge plasma. IN: Sb 35, no. 1, 1974, 129-133. (RZhElektrotekhenerg, 2/75, 2F22)
153. Gaponov, I. M., et al. Comparing the electric conductivity of combustion products with various types of seeding. TVT, no. 5, 1975, 1125-1127.

154. Gaponov, I. M., et al. Seed ionization in the combustion chamber of an MHD generator. IN: Sb 41, 1975, 55-62. (RZhElektrotekhnenerg, 11/75, 11F22)
155. Gaponov, I. M., et al. Study of the electric conductivity of combustion plasma with additives in the U-02 MHD generator. IN: Combustion and Flame, no. 1, 1974, 29-35. (RZhElektrotekhnenerg, 4/75, 4F9)
156. Gel'fgat, Yu. M., and L. A. Gorbunov. Joule heating in the profiled channel of an MHD pump with axial flow. MG, no. 4, 1975, 117-122.
157. Getselev, Z. N., et al. Experimental study of liquid metal circulation in an electromagnetic field. MG, no. 2, 1975, 144-146.
158. Glukhikh, V. A., et al. Results of studies and experimental design of liquid metal MHD machines. MG, no. 1, 1975, 102-110.
159. Golubev, V. S. Closed cycle MHD generators with nonequilibrium plasma. IN: Sb 41, 1975, 16-31. (RZhElektrotekhnenerg, 11/75, 11F28)
160. Golubev, V. S., et al. Relation of Hall effect in a nonequilibrium plasma to electron density. TVT, no. 1, 1975, 189-191.
161. Gribkov, V. M., and E. K. Chekalin. Study on properties of nonstationary cathode spots on the surface of cooled electrodes. IN: Sb 32, no. 8, 1973, 39-44. (RZhF, 2/75, 2G329)
162. In the Academy's Institute of High Temperatures [New output from the U-25 MHD generator]. VAN, no. 8, 1975, 126.
163. Isayenkov, Yu. I., and L. P. Poberezhskiy. Experimental determination of elements for a mathematical model of an MHD generator. IN: Sb 41, 1975, 63-75. (RZhElektrotekhnenerg, 11/75, 11F8)

164. Issledovaniya na ustanovke U-25. Ch. 1. Issledovaniya osnovnykh sistem teplovogo kontura. Ch. 2. Issledovaniye MGD generatora (Studies on the U-25 system. Part 1. Studies of the basic heat curve systems. Part 2. Study of the MHD generator). AN SSSR. Institute vysokikh temperatur. Nauchno-tekhnicheskiye otchety. Moskva, 1974, part 1, 81 p., part 2, 159 p. (KLDV, 9/75, no. 15771-72)
165. Kapustyanenko, G. G., et al. Interaction of a conductive liquid piston with a magnetic field. MG, no. 3, 1975, 113-118.
166. Kapustyanenko, G. G. et al. Results of studies on thermodynamic acceleration of a fluid. IN: Sb 35, no. 1, 1974, 288-293. (RZhElektrotekhnenerg, 2/75, 2F34)
167. Kirillov, V. V., et al. Experimental study on channel heat emission in an open cycle MHD generator. TVT, no. 3, 1975, 634-643.
168. Kirillov, V. R., and A. P. Ogorodnikov. Induction MHD machine with diverging channel. Part II. Experiment. MG, no. 3, 1975, 107-112.
169. Kirillov, V. V., and V. D. Semenov. Study of heat exchange in the channel of an open cycle MHD generator. IN: Sb 33, no. 6, 1975, 45-49. (RZhElektrotekhnenerg, 12/75, 12F24)
170. Kolesnikov, Yu. B. Flow with a local nonuniform electroconductive boundary. MG, no. 4, 1975, 148-149.
171. Kovalev, A. F., et al. Study of magnetic field effects on plasma flow. IN: Tr 6, no. 5, 1974, 106-116. (RZhMekh, 4/75, 4B14)
172. Krumin', Yu. K. Continuous-duty inclined-type electromagnetic pump. MG, no. 4, 1975, 127-133.

173. Kunevich, T. V. Jet flow of a ferrous liquid in a magnetic field. IN: Sb 18, 1974, 87-90. (RZhMekh, 5/75, 5B41)
174. Kuznetsov, V. I. Results of an experimental study on energy dissipation in the combined accelerator/injector chamber of an MHD device. TVT, no. 4, 1975, 836-842.
175. Makarov, V. S., et al. Electromagnetic heat pipes. TVT, no. 6, 1975, 1271-1280.
176. Maksimov, L. V. Preliminary results of an experimental study on a centrifugal separator for compressed liquid-gas flow. IN: Sb 35, no. 1, 1974, 316-320. (RZhElektrotekhnenerg, 2/75, 2F39)
177. Mayorov, M. M., et al. Experimental hydraulic study of turbulent ferrohydrodynamic flow in an annular channel. MG, no. 4, 1975, 143-145.
178. Mikel'son, A. E., and V. M. Foliforov. MHD methods and devices in industry. MG, no. 1, 1975, 129-140.
179. Mizonov, V. Ye., et al. Analysis of experimental studies on open-cycle MHD generators. IN: Sb 33, no. 7, 1975, 19-23. (RZhElektrotekhnenerg, 11/75, 11F4)
180. Monastyrskaya, A. R., et al. Comparative efficiency of an open-cycle MHD generator plant of large capacity. IN: Sb 41, 1975, 97-102. (RZhElektrotekhnenerg, 11/75, 11F5)
181. Monastyrskaya, A. R., et al. Regenerative tubular heat exchanger for an open cycle MHD electric plant. IN: Sb 33, no. 6, 1975, 40-45. (RZhElektrotekhnenerg, 12/75, 12F27)

182. Mostinskiy, I. L., et al. Economical efficiency of methods and modes for scrubbing ionized deposits from the heating surfaces of an MHD thermal electric plant steam generator. IN: Sb 33, no. 6, 1975, 30-35. (RZhElektrotekhnenerg, 11/75, 11F27)
183. Nekhamin, M. M. Methods for measuring pressure pulsation in an MHD generator channel. IN: Sb 35, no. 1, 1974, 29-35. (RZhElektrotekhnenerg, 2/75, 2F9)
184. Nekhamin, M. M., and Ya. S. Zholudov. Study of hydraulic losses in an MHD generator channel. IN: Sb. 35, no. 1, 1974, 23-29. (RZhElektrotekhnenerg, 2/75, 2F8)
185. Nikolayenko, V. S., and I. G. Panevin. Experimental study of electro-conductive liquid flow stability in a circular pipe and longitudinal magnetic field. MZhiG, no. 5, 1974, 146-150. (RZhMekh, 3/75, 3B40)
186. Polishchuk, V. P. Industrial application of magnetodynamic devices. MG, no. 1, 1975, 118-128.
187. Polishchuk, V. P., and V. I. Shekhovtsov. Pressure distribution in the active zone of an MHD pump. IN: Sb 35, no. 1, 1974, 252-257. (RZhF, 1/75, 1G112)
188. Povkh, I. L., et al. Hydraulic resistance in an MHD separator with rough channel walls. IN: Sb. 28, v. 3, 1975, 19-21. (RZhMekh, 11/75, 11B49)
189. Serebryakov, S. P., et al. Use of a conduction MHD pump in producing titanium castings. MG, no. 2, 1975, 149-151.
190. Shchegolev, G. M., et al. Test results on energy and technical-economic indices for a thermal power station, using an MHD generator with channel walls shielded by injected gas. IN: Sb 33, no. 7, 1975, 8-13. (RZhElektrotekhnenerg, 11/75, 11F7)

191. Shchukin, V. K. Hydraulic resistance and heat transfer of a turbulent flow in tubes with longitudinal magnetic field. IN: Sb 29, v. 2, 1974, 23-28. (RZhMekh, 11/75, 11B38)
192. Stepanov, V. G., et al. Problems in regulating the load on an MHD electric plant during its operation in a power network. IN: Sb 33, no. 7, 1975, 13-19. (RZhElektrotekhenerg, 11/75, 11F18)
193. Styrikovich, M. A., et al. Introduction [in the U-02] of ionized seeding in the form of an aqueous K_2CO_3 solution at high temperatures and concentrations. TVT, no. 6, 1975, 1261-1266.
194. Val'dberg, A. Yu. et al. A simplified system for seed recovery. Teploenergetika, no. 11, 1975, 13-15.
195. Vekshteyn, G. Ye. et al. Diffusion of heavy seed in a dense wall-confined plasma. In-t yad. fiz. SO AN SSSR, Preprint IYaF 74-79. Novosibirsk, 1974, 12 p. (RZhF, 7/75, 7G188)
196. Velikhov, Ye. P., et al. A plasma MHD generator for modeling the conversion of energy from pulsed thermonuclear reactors. AE, v. 39, no. 6, 1975, 387-391.
197. Vliyaniye zoly na rabotu elementov kanala MGD generatora ustanovki U-02 (Effect of ash on duct elements of the U-02 MHD generator). In-t vysokikh temperatur, AN SSSR (IVTAN), Moskva, 1974, 28 p. (KLDV, 9/75, no. 15758)
198. Volkov, A. V. Experimental study of magnetic field effect on grid turbulence. MG, no. 4, 1975, 53-61.
199. Vorob'yev, A. P. et al. Study of acoustic wave dissipation in a magnetic field. TVT, no. 4, 1975, 694-700.

200. Vyatkin, I. P., et al. Application tests with conduction a-c MHD pumps in the magnesium industry. MG, no. 2, 1975, 151-153.
201. Yavoyskiy, V. I., et al. On degassing of fluid metals by an electromagnetic method. MG, no. 2, 1975, 153-154.
202. Yefremov, N. M., and B. A. Tikhonov. Experimental study on shockless coupling of a supersonic dispersion nozzle to a rectangular channel. TVT, no. 6, 1975, 1267-1270.
203. Yurgenson, R. L., and Kh. I. Yanes. Effect on magnetic losses of a pulsating flux in the nonmagnetic gap of a plane linear MHD induction machine. IN: Tr 11, no. 336, 1973, 31-42. (LZhS, 44/75, no. 147543)
204. Zhukov, D. A., et al. Experimental results on effects of chamber injector geometry on its losses. TVT, no. 1, 1975, 166-170.

4. Materials, Components and Auxiliaries

205. Bertinov, A. I., et al. Calculation of magnetic fields and inductance in shielded dipole magnetic coils for MHD devices. MG, no. 4, 1975, 75-83.
206. Cwen, A. A high-refractory ceramic for use in the channel of an MHD generator. Szklo i ceram., v. 25, no. 11, 1974, 337-340. (RZhKh 19M, 10/75, no. 10M85).
207. Dubasov, A. M., et al. On thermal stress in refractory channel walls of an MHD generator. TVT, no. 1, 1975, 224-227.
208. Ganefel'd, R. V. Voltage pulsation effects on electrical strength of MHD channel insulation. IN: Sb 35, no. 1, 1974, 112-115. (RZhElektrotekhnenerg, 2/75, 2F19)
209. German, V. O., et al. On using a potassium nitrate mixture for erosion protection of electrodes in an MHD generator. TVT, no. 6, 1974, 1323-1325. (RZhElektrotekhnenerg, 4/75, 4F8)
210. German, V. O., et al. Testing of porous cermet electrodes protected by injection of nitrogen with a potassium additive. IN: Sb 33, no. 5, 1974, 62-65. (RZhElektrotekhnenerg, 1/75, 1F56)
211. Gnesin, G. G., et al. Electrical conductivity of polycrystalline silicon carbide. IN: Sb 35, no. 1, 1974, 84-94. (RZhElektrotekhnenerg, 2/75, 2F15)
212. Gnesin, G. G., et al. Service test data on polycrystalline silicon carbide electrodes in the channel of an MHD generator. IN: Sb 35, no. 1, 1974, 101-107. (RZhElektrotekhnenerg, 2/75, 2F17)

213. Gnesin, G. G., and G. S. Oleynik. Thermodynamic analysis of silicon carbide interaction with combustion products of organic fuels. IN: Sb 35, no. 1, 1974, 94-101. (RZhElektrotekhenerg, 2/75, 2F16)
214. Gokhshteyn, Ya. P., and A. A. Safonov. Critical current density at ceramic electrodes based on zirconia and rare earths. IN: Sb 41, 1975, 110-122. (RZhElektrotekhenerg, 11/75, 11F25)
215. Irs, R. R., et al. Thyristor frequency converter for an MHD drive. IN: Tr 11, no. 336, 1974, 101-102. (LZhS, 44/75, no. 147538)
216. Karaulov, A. G. Lining mixtures based on zirconia with orthophosphoric acid binder. Ogneupory, no. 7, 1975, 40-46.
217. Kharitonov, F. Ya., et al. Electrode material for an MHD generator, based on neodymium and dysprosium oxide-stabilized zirconia. TVT, no. 1, 1975, 230-232.
218. Kolesnichenko, A. F., et al. Energy characteristics of recovery lines in a liquid metal system. IN: Sb 13, 1974, 143-151. (RZhElektrotekhenerg, 3/75, 3F17)
219. Kunitskiy, Yu. A. Physical properties of some binary boride systems. IN: Sb 35, no. 1, 1974, 108-112. (RZhElektrotekhenerg, 2/75, 2F18)
220. Nechiporenko, Ye. P. et al. Work function of a Ti-Zr binary carbide in 10^{-5} to 10^{-9} torr vacuum, as a function of N_2 and O_2 level. TVT, no. 4, 1975, 879-872.
221. Oleynik, G. S. and L. A. Shipilova. Effect of sintering conditions on microstructure and electrical characteristics of self-binding silicon carbide. Por. metal. no. 9, 1975, 30-34.

222. Oleynik, G. S. Operating mechanism of a silicon carbide polycrystalline electrode in the channel of an open-cycle MHD generator. IN: Sb 33, no. 5, 1974, 66-70. (RZhElektrotekhnenerg, 1/75, 1F55)
223. Podchernyayeva, I. A., et al. Properties of electrode materials based on refractory compounds. IN: Sb 34, 1974, 201-205. (RZhElektrotekhnenerg, 1/75, 1F53)
224. Poltavtseva, I. S., et al. Porous cermet materials for electrodes with enhanced gas permeability. IN: Sb 33, no. 5, 57-62. (RZhElektrotekhnenerg, 1/75, 1F54)
225. Poluboyarinov, D. N., et al. Technology and properties of aluminum nitride high-density products. Ogneupory, no. 6, 1975, 44-47.
226. Sartbayev, M. K., et al. Issledovaniye periklazotsirkoniyevykh ogneuporov zernistogo stroyeniya v model'nom kanale MGD ustanovki (A study of periclase-zirconia refractories in an MHD channel module). Deposit at VINITI no. 1147-75 Dep, 23 April 1975, 10 p. (RZhElektrotekhn 9/75, no. 9F8 DEP).
227. Sartbayev, M. K., et al. A study of periclase-zirconia-chromospinelide granular refractories. Deposit at VINITI no. 1148-75, DEP., 23 April, 1975, 13 p. (RZhElektrotekhnenerg, 9/75, 9F7)
228. Sazonova, M. V., et al. Dense dielectric coating for porous magnesia ceramics. ZhPKh, no. 4, 1975, 822-826.
229. Sheyndlin, A. Ye., et al. Study of the insulating wall of an MHD channel in a continuous-duty generator. TVT, no. 1, 1975, 151-156.

230. Sozanski, A. Rare earth metal chromites. Szko i ceram, v. 25, no. 10, 1974, 303-307. (RZhKh 19M, 7/75, 7M76)
231. Strakhov, V. I. and V. K. Novikov. Kinetics of synthesis of yttrium, neodymium and cerium chromites. ZhPKh, no. 12, 1975, 2739-2740.
232. Strakhov, V. I., et al. Sintez, termo-mekhanicheskiye i elektricheskiye svoystva ogneporov iz ZrO_2 , stabilizirovannoy okislami RZE. (Synthesis, thermomechanical and electrical characteristics of ZrO_2 refractories stabilized with rare earths). Leningrad tekhnologicheskii institut. Deposit at VINITI no. 379-75 Dep, 14 February 1975, 32 p. (RZhKh 19M, 12/75, 12M98 Dep.).
233. Terekhovskiy, B. I., et al. A refractory binder for linings of a high-temperature unit. Authors' certificate USSR, no. 442173, published 15 December 1974. (RZhKh 19M, 18/75, 18M79 P).
234. Terekhovskiy, B. I., et al. Test data on the ceramic lining of a pilot MHD generator. IN: Sb 35, no. 1, 1974, 57-63. (RZhElektrotekhnenerg, 2/75, 2F12)
235. Yefremov, N. M., and B. A. Tikhonov. Experimental study on a dispersion nozzle for an MHD generator. TVT, no. 1, 1975, 227-229.
236. Yerosov, Yu. I., et al. Development and study of jet electrodes for an MHD generator. IN: Sb 35, no. 1, 1974, 70-77. (RZhElektrotekhnenerg, 2/75, 2F13)
237. Zholudov, Ya. S. Analyzing the efficiency and stability of the combustion chamber for an MHD generator. IN: Sb 38, no. 1, 1974, 14-23. (RZhElektrotekhnenerg, 8/75, 8F12)

238. Zholudov, Ya. S., et al. Development and study of a composite insulating wall for an MHD channel. IN: Sb 33, no. 5, 1974, 71-78. (RZhElektrotekhnenerg, 1/75, 1F52)
239. Zubakov, S. M. and A. Kh. Akishev. Plotnyye periklazovyye ogneupory povyshennoy termicheskoy stoykosti. (Dense periclase refractories with improved thermal stability). Institute metallurgii i obogashcheniya AN KazSSR. Deposit at VINITI no. 2253-74, 14 Aug. 1974, 10 p. (RZhKh 19M, 1/75, 1M72 Dep.).
240. Zykova, N. M., et al. Study of the oxide ceramic electrode area affected by electric discharge in a plasma of combustion products. IN: TVT, no. 3, 1975, 630-633.

5. Duct Engineering and Fluid Dynamics

241. Afonin, A. A., and V. I. Bondarenko. Computation of integral characteristics of a traveling wave system. IN: Sb 22, v. 6, 1975, 66-70. (RZhMekh, 8/75, 8B15)
242. Afonin, A. A., and V. I. Bondarenko. Use of traveling mechanical waves for transporting liquid, solid or loose materials. IN: Sb 13, 1974, 156-161. (RZhMekh, 3/75, 3B54)
243. Akhverdiyev, K. S., and S. A. Svobodina. The plane nonlinear problem of viscous fluid motion in magnetic and electric fields. IN: Sb 7, 1974, 31-36. (RZhMekh, 2/75, 2B6)
244. Alavidze, G. R., and A. B. Vatazhin. Description of turbulent MHD flows by means of supplementary differential equations for turbulent viscosity. IN: Tr 7, no. 32, 1974, 158-170. (RZhMekh, 6/75, 6B14)
245. Antimirov, M. Ya. On stationary MHD flow in a closed circular tube, as a function of wave propagation. MG, no. 3, 1975, 53-57.
246. Anufriyev, A. P., and S. I. Braginskiy. Magnetic field effects on a rotating fluid flow near an uneven boundary. MG, no. 4, 1975, 62-68.
247. Aref'yev, V. I. Instabilities of conducting fluid flow. Part II. MG, no. 3, 1974, 45-51. (RZhMekh, 2/75, 2B7)
248. Aref'yev, V. I. Quasilinear theory of hydrodynamic turbulence and instability of plane-parallel plasma flows. MG, no. 3, 1975, 69-74.
249. Azatyan, L. D. Diffraction of a strong magnetogasdynamic shock wave around a wedge. IAN Arm, v. 27, no. 5, 1974, 47-62. (RZhMekh, 7/75, 7B14)

250. Babitskiy, A. F., and I. G. Odnorozhenko. Study of hydraulic losses in a diffuser with compressed two-phase flow. IN: Sb 33, no. 7, 1975, 67-72. (RZhElektrotekhnenerg, 11/75, 11F37)
251. Baranov, G. A., et al. Hydraulic resistance of the circulating part of a cylindrical channel in an MHD machine. MG, no. 2, 1975, 95-101.
252. Bashtovoy, V. G., and M. S. Krakov. Resonance excitation of waves in a ferromagnetic fluid by a traveling magnetic field. IN: Sb 6, v. 1, 1974, 136-138. (RZhMekh, 2/75, 2B21)
253. Bazdenkov, S. V., and V. V. Vikhrev. Three-fluid MHD model of the current shell in a Z-pinch. Fizika plazmy, no. 3, 1975, 451-457.
254. Bichenkov, Ye. I., and Ye. P. Matochkin. Flow diffusion in a magnetic field compressed by flat bars of variable width. ZhPMTF, no. 6, 1974, 159-162. (RZhMekh, 4/75, 4B38)
255. Bituryn, V. A., and S. A. Medin. Effect of end sectioning of the insulated wall on MHD generator characteristics. IN: Sb 41, 1975, 82-87. (RZhElektrotekhnenerg, 11/75, 11F12)
256. Bondarenko, V. I., and A. A. Afonin. Fluid hydrodynamics in a channel with deforming boundary surface. IN: Sb 26, no. 51, 1975, 113-118. (RZhMekh, 9/75, 9B20)
257. Borblik, Ye. L., et al. Pressure pulsation in the channel of a pilot MHD generator. IN: Sb 33, no. 6, 1975, 49-54. (RZhElektrotekhnenerg, 11/75, 11F14)
258. Breyev, V. V., et al. Development of laminar MHD flows in a channel with coaxial electrodes. Part 1. Axial flow in a tangential magnetic field. MG, no. 3, 1975, 37-47.

259. Breyev, V. V., et al. Development of laminar MHD flows in a channel with coaxial electrodes. Part II. Vortex flow in axial and helical magnetic fields. MG, no. 3, 1975, 48-52.
260. Britov, N. A. On conductive liquid flow in a cavity between two nonconcentric induction rotors. IN: Sb 6, v. 1, 1974, 110-112. (RZhMekh, 2/75, 2B38)
261. Brzhezitskiy, V. A. On motion of a liquid-metal piston under acceleration in a magnetic field. IN: Sb 13, 1974, 151-155. (RZhMekh, 3/75, 3B53)
262. Buchin, V. A., and A. G. Tsypkin. On instability of a Rayleigh-Taylor polarized and magnetized fluid in a variable electromagnetic field. DAN SSSR, v. 219, no. 5, 1974, 1085-1088. (RZhMekh, 4/75, 4B26)
263. Chameyeva, N. A. Study on effects of electric conductivity in the channel wall and heat dissipation on the natural convection in a nonuniform magnetic field. IN: Sb 5, 1973, 131-138. (RZhMekh. 1/75, 1B33)
264. Dargeyko, M. M. Study of wave propagation in magnetoviscoelastic media. IN: Sb 31, no. 27, 1975, 44-49. (RZhMekh, 12/75, 12B8)
265. Dedkov, A. N. On optimal conditions for transition through sonic speed in an MHD channel. IN: Sb 35, no. 1, 1974, 221-230. (RZhElektrotekhnenerg, 2/75, 2F31)
266. Dedkov, A. N. On optimal flow in MHD channels. IN: Sb 35, no. 1, 1974, 215-221. (RZhElektrotekhnenerg, 2/75, 2F30)
267. Derendyaev, N. V. Non-selfsimilar jet in wave flow in a strong transverse magnetic field. MG, no. 2, 1975, 140-142.

268. Derkach, P. Kh. and T. I. Zhigula. Boundary layer of an extended cylinder in an axial flow in a radial magnetic field. MG, no. 2, 1974, 141-142. (RZhMekh, 1/75, 1B19)
269. Fedorchenko, A. T. Numerical study of viscous compressed MHD gas flows in a rectangular duct. MZhiG, no. 5, 1975, 27-33.
270. Ganefel'd, R. V. Turbulent structure of a current-carrying plasma flow. IN: Sb 35, no. 1, 1974, 186-189. (RZhElektrotekhnenerg, 2/75, 2F28)
271. Gel'fgat, Yu. M., and A. L. Gudkov. Transient processes in hydraulic systems with MHD throttling devices. MG, no. 2, 1975, 102-105.
272. Golub', V. N., et al. Study of the cathodic field in a heavy electric current discharge with high time resolution. IN: Sb 41, 1975, 94-97. (RZhElektrotekhnenerg, 11/75, 11F23)
273. Gorbachev, L. P., et al. On MHD rotation of a conductive fluid in a cylindrical vessel of finite dimensions. MG, no. 4, 1974, 32-42. (RZhMekh, 5/75, 5B5)
274. Gorbachev, L. P., and A. A. Tubin. Secondary flows of fluid between rotating coaxial cylinders of finite length in an axial magnetic field. MG, no. 3, 1974, 37-46. (RZhMekh, 2/75, 2B16)
275. Gorn, R. K., et al. Flow density distribution in a cross-shaped two-dimensional electroconductive cavity. IN: Sb 35, no. 1, 1974, 268-274. (RZhF, 1/75, 1G230)
276. Gorn, R. K., et al. Numerical study of liquid metal flow in the cross-shaped reaction zone of an MHD pump. IN: Sb 35, no. 1, 1974, 275-287. (RZhF, 1/75, 1G110)

277. Granik, I. S., and L. K. Martinson. Plane nonstationary flow of a non-Newtonian conductive fluid. MG, no. 4, 1974, 141-143. (RZhMekh, 5/75, 5B4)
278. Ivanov, L. P. Convective stability of a ferromagnetic liquid in a vertical channel heated from below. IN: Sb 11, 1974, 44-46. (RZhMekh, 3/75, 3B39)
279. Kapusta, A. B., and I. R. Ved'kalov. Motion of a spherical nonconducting particle in a rotating MHD flow. MG, no. 3, 1974, 57-61. (RZhMekh, 2/75, 2B10)
280. Kapusta, A. B., and I. E. Nosovitskaya. The effect of conducting electrode faces on the flow in a rotationally symmetrical magnetic field. MG, no. 1, 1975, 153-155.
281. Kapustyanenko, G. G. Plane flow of an electrically conductive fluid around a gas cavity in a magnetic field. IN: Sb 26, no. 51, 1975, 130-133. (RZhMekh, 9/75, 9B8)
282. Kashkarov, V. P. Newtonian fluid jet with a free surface in a magnetic field. IN: Sb 4, 1974, 226. (RZhMekh, 1/75, 1B26)
283. Katsnel'son, S. S., et al. Motion of an electroconductive gas in a time-varying magnetic field. IN: Sb 27, no. 3, 1974, 27-28. (RZhMekh, 10/75, 10B4)
284. Keleberdenko, S. B. Form of liquid equilibrium in a cylinder under influence of weak gravitational and magnetic fields, with allowance for surface tension force. Stability of equilibrium forms. IN: Sb 19, 1974, 128-142. (RZhMekh, 7/75, 7B3)

285. Kereselidze, Z. A., and D. V. Sharikadze. Stationary heat transfer in a variable-conductivity fluid in a uniform external magnetic field, allowing for porosity. Soobshcheniya AN Gruz SSSR, no. 1, 1975, 89-92. (RZhMekh, 11/75, 11B21)
286. Khonichev, V. I., and V. I. Yakovlev. Secondary flow originating in a rotating cylinder of incompressible conductive fluid at abrupt switching of a transverse magnetic field. ZhPMTF, no. 5, 1974, 28-36. (RZhMekh, 2/75, 2B15)
287. Kirko, G. Ye. Separation effect in a jet flowing in the field of a ring current. IN: Sb 28, no. 3, 1975, 17-18. (RZhMekh, 11/75, 11B34)
288. Kirko, G. Ye. Viscous core in an axisymmetric flow at large Stewart numbers. MG, no. 4, 1975, 49-52.
289. Kovalev, L. K. et al. Study of Faraday MHD channels with sectional side walls. IN: Tr 10, no. 286, 65-70. (RZhElektrotekhnenerg, 3/75, 3F6)
290. Kovalev, L. K., et al. Influence of lateral edge effect on conduction characteristics of an MHD channel with nonuniform flow. TVT, no. 3, 1975, 605-613.
291. Kovalev, L. K. et al. Three-dimensional conducting viscous flow in a coaxial MHD channel with asymmetric magnetic field. MG, no. 2, 1975, 54-60.
292. Kovalev, L. K., and Yu. M. Nikitin. Transverse edge effect in a rectangular MHD channel with sectional side walls and variable anisotropic flow conductivity. MG, no. 4, 1974, 65-75. (RZhElektrotekhnenerg, 5/75, 5F7).

293. Kovrov, N. Ye., and A. I. Morozov. Regular structure of compressed flow area in a magnetoplasma compressor. ZhETF P, v. 22, no. 3, 1975, 133-135. (RZhMekh, 12/75, 12B22)
294. Kozyrenko, V. Ye. Calculation of heterogeneous conducting flows in rectangular MHD channels. I. MG, no. 3, 1975, 29-36.
295. Kukaynis, O. A., and A. Ya. Shishko. On a mechanism of conductive fluid flow instability in a conductive MHD device. MG, no. 4, 1974, 109-115. (RZhMekh, 5/75, 5B29).
296. Kuznetsov, A. P., and A. S. Pleshanov. On flow behind a detonation wave front in a transverse magnetic field at small Re_m . FGiV, no. 5, 1974, 784-788. (RZhMekh, 3/75, 3B21)
297. Latyshev, V. M., et al. Computation studies of the channel of a 1200 MW MHD power unit, with nominal and partial modes. IN: Sb 33, no. 6, 1975, 14-18. (RZhElektrotekhnenerg, 11/75, 11F13)
298. Lazarev, P. P., and A. S. Pleshanov. Quasi-unidimensional computation of a real MHD channel at small Re_m . MG, no. 3, 1974, 90-98. (RZhElektrotekhnenerg, 3/75, 3F5)
299. Lielpeter, Ya. Ya., et al. Evaluation of the velocity profile in an MHD channel by secondary field induction. MG, no. 3, 1975, 153-155.
300. Likhachev, O. A., and V. N. Shtern. Stability of an MHD flow in a channel with inclined external field. MZhiG, no. 2, 1975, 3-7. (RZhMekh, 9/75, 9B16)
301. Likhachev, O. A., and V. N. Shtern. Self-oscillating MHD flow in a channel with axial magnetic field. MG, no. 3, 1975, 15-20.

302. Mareyev, V. A. Self-similar magnetogasdynamic flows associated with detonation and combustion waves. MZhiG, no. 1, 1975, 99-107. (RZhMekh, 7/75, 7B9)
303. Martinson, L. K. Stationary MHD and EHD flows of non-Newtonian fluids. MG, no. 3, 1975, 21-28.
304. Naletov, V. V. Internal and surface noise in the turbulent boundary layer of a conductive fluid. IN: Sb 35, 1974, 193-197. (RZhMekh, 1/75, 1B20)
305. Nanushyan, G. V., and R. S. Oganessian. On magneto-capillary flow stability of a conductive fluid, allowing for viscosity. IN: Tr 4, no. 3, 1973, 64-72. (RZhMekh, 3/75, 3B33)
306. Nedospasov, A. V., and V. D. Khait. Nonlinear analysis of unstable magnetohydrodynamic flow. TVT, no. 4, 1974, 835-841. (RZhElektrotekhnenerg, 1/75, 1F42)
307. Nikitin, Yu. M. Three-dimensional edge effect in MHD channels, from flow of a nonuniform conducting medium. MG, no. 4, 1975, 89-98.
308. Odnorozhenko, I. G., and Ye. T. Bazeyev. Computation scheme for a separator for use in two-phase compressed flows. IN: Sb 33, no. 7, 1975, 64-67. (RZhElektrotekhnenerg, 11/75, 11F39)
309. Odnorozhenko, I. G., et al. Comparative studies of various separator models for two-phase compressed flows. IN: Sb 33, no. 6, 1975, 89-93. (RZhElektrotekhnenerg, 11/75, 11F38)
310. Padalka, V. G. Dynamics of plasma flow in nonuniform transverse magnetic fields. IN: Sb 42 1974, 199-238. (RZhF, 5/75, 5G388)

311. Pavlov, A. M. Motion of a solid with a cavity containing a viscous weakly-conductive fluid. Part I. Different forms of cavities. IN: Sb 4, v. 8, 1973, 78-84. (RZhMekh, 3/75, 3B5)
312. Pavlov, K. B. On MHD flow of an incompressible viscous fluid caused by deformation of a flat surface. MG, no. 4, 1974, 146-147. (RZhMekh, 5/75, 5B19)
313. Povkh, I. L. et al. Effect of crossed electrical and magnetic fields on free-surface flow in a channel with abrupt widening. IN: Sb 28, v. 3, 1975, 80-82. (RZhMekh, 11/75, 11B44)
314. Prihod'ko, V. I., and V. S. Shchelokov. Application of ergodic relations in the study of hydrodynamic systems. 2nd International Conference on Plasma Theory, Kiyev, 1974, 21 p. (RZhMekh, 3/75, 3B2)
315. Regirer, S. A. Outflow of conductive fluid through a plane slotted channel opening. IN: Tr 7, no. 32, 1974, 143-148. (RZhMekh, 6/75, 6B15)
316. Reysig, V. A., and A. S. Khvostenko. Method of computing the kinetics of nonequilibrium physicochemical processes. IN: Sb 33, no. 7, 1975, 56-59. (RZhElektrotekhnenerg, 11/75, 11F29)
317. Sagalakov, A. M. Stability of a laminar conducting fluid flow in a transverse magnetic field. MG, no. 3, 1974, 8-16. (RZhMekh, 2/75, 2B27)
318. Shapakidze, L. D. On flow stability of a viscous electroconductive fluid between two concentric cylinders. MG, no. 4, 1975, 145-148.
319. Shchegolev, G. M. Feasibility of studying MHD channel flow with a model. IN: Sb 33, no. 5, 1974, 84-94. (RZhElektrotekhnenerg, 1/75, 1F39)

320. Shchukin, V. K. Hydraulic resistance and heat emission of a conducting turbulent liquid flow in a plane channel with transverse magnetic field. IN: Tr 8, v. 178, 1974, 13-19. (RZhMekh, 7/75, 7B37)
321. Sher'yazdanov, G. B. MHD flow around a fine profile in an inclined magnetic field. MG, no. 3, 1974, 27-30. (RZhMekh, 2/75, 2B9)
322. Sher'yazdanov, G. B. Semifinite laminar flow of an incompressible conductive liquid on a moving plate. IN: Sb 4, v. 2, 1974, 245-246. (RZhMekh, 2/75, 2B37)
323. Snubin, A. P. Small transient disturbance of plane flow of a highly conductive plasma in a channel. ZhPMTF, no. 1, 1975, 19-29. (RZhMekh, 7/75, 7B24)
324. Simkhovich, S. L. Effect of three-dimensional finite perturbation on stability of Hartmann flow. MG, no. 3, 1974, 17-22. (RZhMekh, 2/75, 2B28)
325. Sipliviy, B. N. Approximate computation of the velocity field in a planar MHD channel. IVUZ Elektromekh, no. 2, 1975, 213-215. (RZhElektrotekhnenerg, 8/75, 8F6)
326. Siplivyy, B. N. On steady-state conductive fluid flow in a circular channel with a radial magnetic field. IVUZ Elektromekh, no. 3, 1975, 327-330. (RZhElektrotekhnenerg, 8/75, 8F16)
327. Stupin, A. A. and A. B. Imanov. Motion of fluid film in a liquid metal MHD separator. TVT, no. 4, 1975, 847-852.
328. Taktarov, N. G. Convection of a ferromagnetic fluid near a vertical plate. MG, no. 1, 1975, 152-153.

329. Tananayev, A. V. MHD flows in rough tubes. MG, no. 2, 1975, 29-34.
330. Tarapov, I. Ye. Magnetized liquid flow in long tubes. PM, v. 10, no. 11, 1974, 106-111. (RZhMekh, 7/75, 7B35)
331. Tsebers, A. O. On the magnezation models of a ferromagnetic colloid in a hydrodynamic flow. MG, no. 4, 1975, 37-44.
332. Usikov, A. Ya., et al. Use of SHF ionization to increase electric conductivity of cold boundary layers. IN: Sb 33, no. 7, 1975, 28-33. (RZhElektrotekhnenerg, 11/75, 11F21)
333. Uvarov, V. V., et al. Calculation of turbulent boundary layer at the insulated channel wall of an MHD generator. IN: Sb 33, no. 6, 1975, 55-60. (RZhElektrotekhnenerg, 11/75, 11F11)
334. Uvarov, V. V., et al. Study of a discharge diffuser channel of an MHD generator. IN: Sb 33, no. 7, 1975, 25-28. (RZhElektrotekhnenerg, 11/75, 11F16)
335. Vanin, V. Ye, et al. Effect of electrode motion in a flow on local characteristics of an MHD generator. IN: Sb 41, 1975, 87-93. (RZhElektrotekhnenerg, 11/75, 11F20)
336. Vasil'yeva, I. A. Methods for studying an equilibrium plasma in an MHD generator duct. IN: Sb 41, 1975, 38-55. (RZhElektrotekhnenerg, 11/75, 11F10)
337. Volchek, B. B., et al. Effect of nonuniform velocity distribution and limited channel width on flow characteristics in a traveling magnetic field. MG, no. 3, 1974, 105-112. (RZhMekh, 2/75, 2B41)

338. Yakhot, A. O. Effective internal impedance of a channel with variable cross-section and electrodes. MG, no. 2, 1974, (RZhMekh 1/76, 1B44)
339. Yakushin, V. I. On oscillating flow of ferromagnetic liquids. MG, no. 4, 1974, 19-23. (RZhMekh, 4/75, 4B10)
340. Yantovskiy, Ye. I. On the analogy between transition to two-dimensional turbulence and oriented magnetization. MG, no. 2, 1974, 135-138. (RZhMekh, 1/75, 1B38)
341. Yerkayev, N. V., and V. G. Pivovarov. Flow of a conductive gas around a wedge in the presence of a magnetic field. Case of an attached shock wave. IN: Sb 15, no. 2, 1974, 7-19. (RZhMekh, 4/75, 4B6)
342. Zatelepin, V. N., and S. A. Medin. Influence of nonuniform conduction on end effect in a sectional MHD generator. TVT, no. 5, 1974, 1071-1077. (RZhElektrotekhnenerg, 4/75, 4F7)
343. Zaytsev, S. G., et al. Study of characteristics of separation originating in a supersonic plasma flow passing through a transverse magnetic field. MZhiG, no. 1, 1975, 86-91. (RZhMekh, 5/75, 5B15)
344. Zhelnorovich, V. A. On Newtonian equations for fluids with internal magnetic and mechanical momenta. MZhiG, no. 6, 1974, 155-158. (RZhMekh, 3/75, 3B1)

6. Magnetohydrodynamic Theory

345. Ageyev, A. N. Electrodynamic excitation of ultrasound in liquid metals. MG, no. 4, 1974, 135-140. (RZhMekh, 5/75, 5B45)
346. Alekseyev, V. V. On bifurcation of stationary solutions to the MHD equation. Mat. analiz i yego pril, v. 6, 1974, 20-30. (LZhS, 37/75, no. 123076)
347. Aleksin, V. F., and S. S. Romanov. Diffusion of quasi-stationary helical magnetic fields inside cylindric chambers. Part II. ZhTF, no. 9, 1974, 1877-1882. (RZhMekh, 1/75, 1B51)
348. Antimirov, M. Ya. Rigorous solution to nonstationary MHD problems in a nonuniform external magnetic field. MG, no. 4, 1975, 45-48.
349. Atroshchenko, L. S., and S. M. Voronina. Diffusion process in a magnetic field. Teoreticheski osnovy khimicheskoi technologii, v. 9, no. 3, 1975, 439-442. (RZhMekh, 11/75, 11B11)
350. Azatyan, L. D. Obtaining a nonlinear solution in the vicinity of a magnetosonic wave. IN: Tr 3, no. 3(127), 1974, 32-37. (RZhMekh, 6/75, 6B4)
351. Bakhrakh, S. M., and Ye. V. Gubkov. Application of the splitting method for computation of two-dimensional magnetogasdynamic flow. MG, no. 2, 1975, 9-15.
352. Barmin, A. A., and A. G. Kulikovskiy. On plane steady flow with ionizing shock waves in a magnetic field. MZhiG, no. 5, 1974, 62-66. (RZhMekh, 2/75, 2B22)

353. Barmin, A. A., and L. N. Lebedeva. Interaction of slow detonation with an Alfvén discontinuity, for the case of a strong transverse magnetic field. IN: Tr 7, no. 32, 1974, 60-66. (RZhMekh, 7/75, 7B19)
354. Blum, E. Ya. Heat and mass transfer in a magnetic field. MG, no. 1, 1975, 35-46.
355. Borisov, I. D. Equilibrium forms of surfaces of magnetized capillary fluids. Small variations. IN: Sb 6, v. 1, 1974, 138-140. (RZhMekh, 2/75, 2B4)
356. Bulanov, S. V. Magnetohydrodynamic stability of the neutral current layer in a plasma. ZhTF, no. 9, 1974, 2008-2010. (RZhF, 1/75, 1G61)
357. Burde, G. I., et al. Use of numerical methods for study of fluid flow under mass force effect. IN: Sb 35, no. 1, 1974, 258-268. (RZhF, 1/75, 1G105)
358. Burenin, Yu. A. Study of energy characteristics in an impulse MHD system. FGIV, no. 3, 1975, 433-437. (RZhMekh, 11/75, 11B50)
359. Degtyareva, G. D., and G. Ye. Shevchenko. Computation of a traveling magnetic field in an isotropic three-layer medium. MG, no. 4, 1974, 132-134. (RZhMekh, 5/75, 5B42)
360. Dolginov, A. Z., et al. On the stationary level of a large-scale magnetic field in a gyrotropically turbulent medium. ZhETF, v. 68, no. 1, 1975, 69-77. (RZhMekh, 4/75, 4B31)
361. Fisun, O. I. On effectiveness of stabilizing ionized instability by a system of negative feedback. IN: Sb 35, no. 1, 1974, 209-215. (RZhF, 1/75, 1G39)

362. Gailitis, A., and O. Lielausis. The instability of a uniform velocity distribution in an induction MHD machine. MG, no. 1, 1975, 87-101.
363. Ganefel'd, R. V., and V. B. Red'kin. Fulsation of electric power in MHD channels. TVT, no. 4, 1974, 908-910. (RZhElektrotekhnenerg, 2/75, 2F48)
364. Getselev, Z. N., and G. I. Martynov. Computation of velocity field generated in the liquid phase of a melt by an electromagnetic force. MG, no. 2, 1975, 106-111.
365. Glazov, O. A. Motion of the ferrosuspension in rotating magnetic fields. MG, no. 2, 1975, 16-22.
366. Glazov, O. A. The role of higher harmonics in motion of a ferrosuspension in a rotating magnetic field. MG, no. 4, 1975, 31-36.
367. Glukhin, V. A., and I. R. Kirillov. Limit energy characteristics of liquid metal MHD generators. IN: Sb 41, 1975, 32-38. (RZhElektrotekhnenerg, 11/75, 11F32)
368. Gorbenko, G. A., and S. D. Frolov. Analysis of the operative process in the circular channel of a two-phase MHD generator. IN: Sb 38, no. 1, 1974, 115-123. (RZhElektrotekhnenerg, 8/75, 8F19)
369. Gorskiy, V. B. On the theory of electromagnetic gas dynamics. IN: Sb 10, 1974, 14-16. (RZhMekh, 2/75, 2B18)
370. Hedai, L. High temperature energy systems. Energ. es Atomtehn., no. 10, 1974, 454-459. (RZhElektrotekhnenerg, 4/75, 4F5)
371. Kadchenko, S. I. A plane linear MHD problem of stable motion of an electric conductive fluid between shaft and bearing in radial magnetic and axial electric fields. IN: Sb 8, v. 3, 1974, 185-196. (RZhMekh, 2/75, 2B11)

372. Kirko, G. Ye. Amplification of magnetic fields in moving conductive media. IN: Sb 9, 1974, 9-12. (RZhMekh, 2/75, 2B17)
373. Kirshteyn, G. Kh., and V. A. Timofeyev. The discontinuity effect of magnetic field flux on conversion characteristics of electromagnetic discharges. MG, no. 4, 1975, 139-142.
374. Kiselev, M. I., and A. Mayrykov. Study on fluid flow stability in a cylindrical shell. IN: Tr 1, no. 73, 1974, 26-32. (RZhMekh, 1/75, 1B34)
375. Kobranov, G. P. Iterative approximation method for computer solution of magnetogasdynamic equations. IN: Tr 5, v. 191, 15-25. (RZhMekh, 4/75, 4B12)
376. Kolesnikov, V. K., and V. D. Khait. On nonlinear oscillations in an MHD generator. TVT, no. 3, 1975, 601-604.
377. Korenev, N. K. On a stable differential scheme for an MHD problem. VLU, no. 19, 1974, 33-41. (RZhMekh, 7/75, 7B5)
378. Kostenko, P. P., and S. D. Frolov. Methods for computing the makeup of the working material in an open-cycle MHD generator. IN: Sb 38, no. 1, 1974, 3-8. (RZhElektrotekhenerg, 8/75, 8F10)
379. Kostenko, P. P., and L. Z. Krochak. Noncalculable modes of a supersonic MHD device. IN: Sb 38, no. 1, 1974, 23-29. (RZhElektrotekhenerg, 8/75, 8F9)
380. Kozlov, V. B. Thermodynamics of a multistage injection cycle for a liquid metal MHD converter. TVT, no. 6, 1974, 1244-1251. (RZhElektrotekhenerg, 4/75, 4F14)

381. Kuznetsov, A. P., and A. S. Pleshanov. On establishing a self-excited regime in an MHD generator. MG, no. 3, 1975, 80-84.
382. Kuznetsova, E. F., et al. Possibility of generating plasma from the working material in an MHD generator channel with the help of gamma radiation. IN: Sb 43, 1974, 48-53. (RZhF, 3/75, 3G380)
383. Ladyzhenskaya, O. A., and V. A. Solonnikov. On linearization and invariant sets for magnetohydrodynamic problems. IN: Sb 1, 1974, 83-130. (RZhMekh, 1/75, 1B1)
384. Laptukhov, A. I. On the dynamics of a one-dimensional magnetoactive plasma. ZhTF P, v. 1, no. 6, 1975, 285-288.
385. Levitan, Yu. S., et al. Model study of a spatial MHD boundary layer. MZhiG, no. 4, 1974, 154-156. (RZhMekh, 3/75, 3B22)
386. Malov, Yu. I., et al. Using the method of infinite systems to solve boundary problems of a magnetohydrodynamic conducting medium. MG, no. 4, 1975, 3-21.
387. Martinson, L. K., and K. B. Pavlov. Magnetohydrodynamics of non-Newtonian fluids. MG, no. 1, 1975, 59-67.
388. Merches, I. On a certain class of gauge invariance in magnetohydrodynamics. An. sti. Univ. Iasi, v. 20, no. 1, 1974, 27-36. (RZhF, 7/75, 7G157)
389. Migunov, A. L. Study of ferromagnetic mass effect on liquid metal conductivity. IN: Sb 37, 1975, 34-39. (RZhElektrotekhennerg, 7/75, 7F10)

390. Molyukov, I. D., et al. Motion of a solid with a cavity containing a viscous weakly-conductive fluid. IN: Sb 4, v. 8, 1974, 85-94. (RZhMekh, 4/75, 4B13)
391. Naletov, V. V. On plasma flow noise in a magnetic field. IN: Sb 5, no. 1, 1974, 190-193. (RZhF, 1/75, 1G102)
392. Naletov, V. V. On sound emission from locally-isotropic turbulence. IN: Sb 35, 1974, 198-201. (RZhMekh, 1/75, 1B14)
393. Nikolayev, Yu. A. and V. N. Tsytovich. Effect of scattering on magneto-hydrodynamic oscillations, and the discrete spectra of relativistic electrons generated by a turbulent plasma. ZhETF, v. 69, no. 5, 1975, 1634.
394. Oganessian, R. S., et al. MHD theory of stability of elongated viscous spheroids. IN: Tr 3, no. 2, 1974, 35-41. (RZhMekh, 3/75, 3B28)
395. Oreper, G. M. Mass transfer from the surface of a cylinder in an electromagnetic field. MG, no. 2, 1975, 138-139.
396. Pavlov, A. M. Some characteristics on motion of solids with weak conductivity near a fixed point in a magnetic field. IN: Sb 4, v. 2, 1974, 51-53. (RZhMekh, 2/75, 2B13)
397. Pavlov, V. A. MHD wave transformation at a plasma-vacuum boundary. MG, no. 3, 1975, 58-62.
398. Pavlov, Ye. G. Optimal control of a conducting fluid filament. IVUZ Avia, 1974, 22-35. (RZhMekh, 9/75, 9B5)
399. Petrosyan, L. G. On a problem in asymmetrical magnetohydrodynamics. IAN Arm., no. 6, 1974, 44-55. (RZhMekh, 7/75, 7B8)

400. Pleshanov, A. S., A. B. Tsinober, and M. A. Chusov. Computation of a model for an MHD experiment on stress relaxation in a turbulent medium. MG, no. 2, 1975, 39-44.
401. Poberezhskiy, L. P., and A. O. Yakhot. Distribution of potential in a channel with Hall effect and a nonuniform magnetic field. MG, no. 4, 1974, 57-64. (RZhElektrotekhnenerg, 5/75, 5F6)
402. Rashchepkin, A. P. Hall voltage in a plasma flow in an external alternating magnetic field. IN: Sb 2, 1975, 33-40. (RZhElektrotekhnenerg, 10/75, 10F5)
403. Repa, I. I. On nonlinear oscillations of electric current in a plasma. IN: Sb 35, no. 1, 1974, 201-208. (RZhElektrotekhnenerg, 2/75, 2F29)
404. Rvachev, V. L., and T. I. Sheyko. On the distribution problem of electric potential during flow of a conductive fluid in a nonuniform magnetic field. IN: Sb 30, v. 18, 1975, 135-139. (RZhMekh, 11/75, 11B39)
405. Rvachev, V. L., and T. I. Sheyko. Three-dimensional distribution of electric field in a cylindrical channel. MG, no. 4, 1974, 53-56. (RZhMekh, 5/75, 5B35)
406. Sakhayev, Sh., and V. A. Solonnikov. Analysis of some MHD boundary problem solutions. IN: Tr 9, no. 127, 1975, 76-92. (RZhMekh, 12/75, 12B2)
407. Samsonov, A. M. Asymptotic solution of the heat transfer problem in an inductive MHD device. MG, no. 4, 1975, 84-88.
408. Sapunkov, Ya. G. Natural convection in power-law distribution of plate temperature in the presence of a strong magnetic field. MG, no. 2, 23-28.
409. Sapunkov, Ya. G. Natural convection in a strong magnetic field. MG, no. 4, 1974, 24-31. (RZhMekh, 5/75, 5B23)

410. Sapunkova, O. M. Study of one rigorous solution of an MHD equation. IN: Aerodinamika, Saratov, no. 3(6), 1974, 110-119. (RZhMekh, 7/75, 7B7)
411. Savchenko, Yu. N., and L. P. Gorbachev. Generation of Alfvén acoustic waves in a diffusion boundary with a non-ionized medium. MG, no. 3, 1975, 63-68.
412. Sedova, G. L. Plane waves and small disturbances in magnetized or polarized media. MZhiG, no. 6, 1974, 114-120. (RZhMekh, 3/75, 3N13)
413. Selezov, I. T. Propagation and diffraction of waves in an MHD medium with elastic inclusions. IN: Sb 21, 1974, 641-648. (RZhMekh, 7/75, 7B21)
414. Semenov, V. S. Applying a ray method to stationary equations of electrodynamics in a conducting liquid. ZhTF, no. 8, 1975, 1584-1590. (RZhMekh, 12/75, 12B4)
415. Semyashova, L. M., et al. Self-oscillation of a conducting piston. MG, no. 4, 1974, 76-81. (RZhMekh, 5/75, 5B12)
416. Serdechniy, V. A., and M. V. Tret'yakov. On a problem in applied MHD. IN: Sb 14, v. 11, 1974, 76-81. (RZhMekh, 3/75, 3B71)
417. Shaposhnikov, I. G., and M. I. Shliomis. Hydrodynamics of a magnetized medium. MG, no. 1, 1975, 47-58.
418. Shaposhnikova, G. A. Shock adiabats in magnetized nonconducting media. PMM, v. 39, no. 1, 1975, 182-185. (RZhMekh, 6/75, 6B7)
419. Shchegolev, G. M. Comparative study of heat exchange and resistance in the channel of an MHD generator. IN: Sb 33, 1975, no. 7, 33-40. (RZhElektrotekhenerg, 12/75, 12F26)

420. Shcherbinin, E. V. Electroconducting fluid in a self-magnetic field. MG, no. 1, 1975, 68-74.
421. Shikin, I. S. On wave theory in relativistic magnetohydrodynamics. 2nd International Conference on Plasma Theory, Kiev, 1974, 151 p. (RZhMekh, 3/75, 3B12)
422. Sipliviy, B. N. Approximate computation of the velocity field in a circular and planar MHD channel. MG, no. 2, 1975, 45-53.
423. Sorokin, L. Ye. Monotonic and fluctuating convection modes of conducting media in a magnetic field. MG, no. 4, 1975, 22-30.
424. Sutyurin, G. G., and N. G. Taktarov. On stability of a tangential separation in a magnetized medium. PMM, v. 39, no. 3, 1975, 547-550. (RZhMekh, 12/75, 12B14)
425. Taktarov, N. G. Breakup of magnetic liquid jets. MG, no. 2, 1975, 35-38.
426. Taktarov, N. G. Surface waves in a viscous ferromagnetic fluid. MG, no. 4, 1974, 143-145. (RZhMekh, 5/75, 5B11)
427. Tarapov, I. Ye. Hydrostatic problems in magnetized and polarized media. MZhiG, no. 5, 1974, 141-144. (RZhMekh, 2/75, 2B2)
428. Tarapov, I. Ye. Surface boundary stability of a conducting magnetic medium. IN: Sb 16, v. 30, 1974, 79-86. (RZhMekh, 5/75, 5B28)
429. Tarapov, I. Ye. Surface discontinuity in magnetized media. ZhPMTF, no. 5, 1974, 23-27. (RZhMekh, 2/75, 2B23)
430. Trushin, V. S. Energy evaluation of nonequilibrium ionization using external sources in an MHD generator. TVT, no. 5, 1975, 1052-1058.

431. Tsarkov, V. G. Motion of a nonequilibrium, nonisothermal plasma in an electromagnetic field. MZhiG, no. 5, 1974, 72-75.
432. Tsebers, A. O. Interphase stresses in hydrodynamics for the case of a fluid with internal rotation. MG, no. 1, 1975, 79-82.
433. Tsebers, A. O. Flow of dipole fluids in external fields. MG, no. 4, 1974, 3-18. (RZhMekh, 5/75, 5B34)
434. Tsebers, A. O. Simultaneous rotational diffusion of the magnetic moment and solid matrix of single domain ferromagnetic particles. MG, no. 3, 1975, 8-14.
435. Tseskis, A. L. On an invariant of the Loytsyansky type in MHD. MG, no. 2, 1974, 133-135. (RZhMekh, 1/75, 1B4)
436. Tseskis, A. L., and A. B. Tsinober. Processes with anomalous energy transfer through spectral turbulence. MG, no. 3, 1974, 23-26. (RZhMekh, 3/75, 3B47)
437. Tsinober, A. B. MHD turbulence. MG, no. 1, 1975, 7-22.
438. Ul'trivanov, I. P. Dispersed control of a liquid conductor in a magnetic field. IVUZ Avia, no. 2, 1975, 135-139. (RZhMekh, 9/75, 9B6)
439. Valdmanis, Ya. Ya., and O. A. Kukaynis. On the conducting layer stability in an alternating magnetic field. MG, no. 4, 1975, 110-116.
440. Vaynshteyn, S. I. The simplest case of dynamo instability. ZhETF, v. 68, no. 3, 1975, 997-1004. (RZhMekh, 7/75, 7B27)
441. Volosevich, P. P., and Ye. I. Levanov. Calculating a two-temperature problem in hydrodynamics. Inst. prikl. mat., AN SSSR., 1974, 14 p. Dep at VINITI, 10 June 1975, no. 1648-75 Dep. (RZhMekh, 9/75, 9B12 DEP)

442. Voprosy MGD preobrazovaniya energii. Vyp. 1 (Problems of MHD energy conversion, Part 1). IN: Sb 35, 1974, 404 p. (RZhElektrotekhnenerg, 2/75, 2F5)
443. Yakubov, I. T. Estimating the electrical conductivity of combustion products in an open-cycle MHD generator. TVT, no. 6, 1974, 1321-1322. (RZhElektrotekhnenerg, 5/74, 4F10)
444. Zampaglione, V., A. V. Nedospasov, and V. D. Khait. Stability of an MHD flow with nonequilibrium electric conductivity. TVT, no. 4, 1975, 843-846.
445. Zaslavskiy, G. M., et al. On conversion of nonlinear magnetohydrodynamic waves. ZhTF, no. 12, 1974, 2476-2482. (RZhMekh, 3/75, 3B16)
446. Zhelnorovich, V. A. Equations for liquids with internal magnetic and mechanical momenta. MZhiG, no. 5, 1974, 174-177. (RZhMekh, 4/75, 4B1)
447. Zherbina, A. S., and B. M. Rubashev. On applying the theory of dynamic possibility of flow in magnetohydrodynamics. IN: GAO, no. 192, 1974, 128-137. (RZhF, 1/75, 1G95)
448. Zhevlakov, L. N. Conditions for quasistatic equilibrium of a heavy incompressible melt with electric conductivity in an oscillating magnetic field. IN: Sb 20, 1974, 36-41. (RZhMekh, 7/75, 7B4)
449. Zhmakin, A. I. and A. A. Fursenko. A quasistationary approach to the study of ionization instability. MG, no. 2, 1975, 136-137.

7. SOURCE ABBREVIATIONS

AE	-	Atomnaya energiya
AN SSSR PM	-	Akademiya nauk SSSR. Institut prikladnoy matematiki. Moscow.
DAN SSSR	-	Akademiya nauk SSSR. Doklady
FGiV	-	Fizika goreniya i vzryva
GAO	-	Glavnaya Astronomicheskaya Observatoria, Pulkovo.
IAN Arm	-	Akademiya nauk Armyanskaya SSR. Izvestiya Mekhanika.
IAN SO SSSR	-	Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya
IVUZ Avia	-	Izvestiya vysshikh uchebnykh zavedeniy. Aviatsionnaya tekhnika
IVUZ Elektromekh	-	Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika.
KL	-	Knizhnaya letopis'
KLDV	-	Knizhnaya letopis' - Dopolnitel'nyy vypusk.
LZhS	-	Letopis' zhurnal'nykh statey
MG	-	Magnitnaya gidrodinamika
MZhiG	-	Akademiya nauk SSSR. Izvestiya. Mekhanika zhidkosti i gaza.
PM	-	Prikladnaya mekhanika
PMM	-	Prikladnaya matematika i mekhanika
Por. Metal	-	Poroshkovaya metallurgiya
RBL	-	Russian Book List
RZhElektrotekhennerg	-	Referativnyy zhurnal. Elektrotekhnika i energetika, 21F

- Sb 1 - Sbornik. Materialy Vses. shkoly po differents. uravneniyam s beskonech. chislom nezavisimyykh peremennykh i po dinamichesk. sistemam s beskonech. chislom stepeney svobody. Dilizhan, AN Arm SSR.
- Sb 2 - _____. Preobrazovatel'n. i elektroizmerit. Tekhnika, Kiev.
- Sb 3 - _____. Teor. i prikl. mekh.
- Sb 4 - _____. Matematika i mekhanika, Alma-Ata.
- Sb 5 - _____. Sovrem. probl. teplovoy gravitats. konveksii, Minsk.
- Sb 6 - _____. Uralsk. konf. po primeneniyyu magnit. gidrodinam. v metallurgii. Perm.
- Sb 7 - _____. Raschet na prochnost' i zhestkost' elementov s-kh mashin i tekhnol oborud. Rostov na Donu.
- Sb 8 - _____. Mosk. obl. ped. in-t, Moscow.
- Sb 9 - _____. Vses. konf. po primeneniyyu magnit. gidrodinam, v metallurgii, Perm.
- Sb 10 - _____. Materialy Konf. molodykh uchenykh Mordovsk, un-t. Estestv. i tekhn. Saransk.
- Sb 11 - _____. Sovrem. probl. teplovoy gravitats. Minsk.
- Sb 12 - _____. VI Vses. konf. po generatoram nizkotemperatur. plazmy. Frunze.
- Sb 13 - _____. Elektroenerg. i magnit. gidrodinamika, Kiev.
- Sb 14 - _____. Fiz. aerodispersn. sistem.
- Sb 15 - _____. Chisl. metody mekh. splosh. sredy.
- Sb 16 - _____. Gidromekhanika. Moscow
- Sb 17 - _____. Protsessy i apparaty v magnitniy pole. Apatity.

- Sb 18 - _____. Geofizicheskiye issledovaniya, Minsk.
- Sb 19 - _____. Dinamika i ustoychivost' mnogomern. sistem. Kiev.
- Sb 20 - _____. Raboty po mekhaniki sploshnoy sredi, Tula.
- Sb 21 - _____. Izbranyye problemy prikladnoy mekhaniki, Moscow.
- Sb 22 - _____. Elektronika i modelirovaniye, Kiev.
- Sb 23 - _____. Teploobmen. Moscow.
- Sb 24 - _____. Nauchnyy institut vychislitel'nogo tsentra, Moskovskiy universitet, Moscow.
- Sb 25 - _____. Raspredelennoye upravleniye protsessami v sploshikh sredakh, Kiev.
- Sb 26 - _____. Problemy tekhnicheskoy elektrodinamiki. Moscow.
- Sb 27 - _____. Aerofizicheskiye issledovaniya, Novosibirsk.
- Sb 28 - _____. 8th Rzh. soveshchaniya po magnit. gidrodinamike, Riga.
- Sb 29 - _____. Teplo. i massoobmen v khimicheskoy tekhnologii, Kazan'.
- Sb 30 - _____. Matematicheskaya fizika, Moscow.
- Sb 31 - _____. Kibernetika i vychislitel'naya tekhnika, Moscow.
- Sb 32 - _____. Energeticheskiy institut im. G. M. Krzhizhanovskogo, Moscow.
- Sb 33 - _____. Teplotekhnicheskiye problemy pryamogo preobrazovaniya energii. Kiev.
- Sb 34 - _____. Stroyeniye, svoystva i primeneniye metallidov. Moscow.

Sb 35	-	_____. Voprosy MGD preobrazovaniya energii. Kiev.
Sb 36	-	_____. Materialy dokl. XI nauch. sessii, posvyashch. itogam nauch. issled. rabot resp/ po koordinir. AN AzSSR probl. yestestv. i obshchestv. nauk za 1973. Baku.
Sb 37	-	_____. Energetika, Kuybyshev.
Sb 38	-	_____. Voprosy gazotermodynamiki energoustanovok. Khar'kov.
Sb 39	-	_____. Energetika, Voronezh.
Sb 40	-	_____. Institut vysok. temperatur, AN SSSR, Moscow
Sb 41	-	_____. Magnitnogidrodinamicheskiye ustanovki. Moscow.
Sb 42	-	_____. Fiz. i primeneniye plazm uskoriteley, Minsk.
Sb 43	-	_____. Teplofizika i termodinamika, Sverdlovsk.
Sb 44	-	_____. Fiz. institut, AN SSSR, Moscow.
TVT	-	Teplofizika vysokikh temperatur
Tr 1	-	Trudy. Frunze politekhnicheskiiy institut Frunze.
Tr 2	-	_____. Tsentr. Aero-Gidrodinam. Institut, Moscow.
Tr 3	-	_____. Yerevan un-t. Yestestv. nauk.
Tr 4	-	_____. Molodoy nauch. rabotnik, Yerevan.
Tr 5	-	_____. Mosk. energ. in-ta., Moscow
Tr 6	-	_____. Mosk. fiz. -tekh. in-ta, Moscow
Tr 7	-	_____. Inst. mekh., Mosk un-ta, Moscow
Tr 8	-	_____. Kazan'. Aviatsionnyy institut.
Tr 9	-	_____. Matematicheskiiy Institut, AN SSSR, Moscow.
Tr 10	-	_____. Moskovskiy Aviatsionnyy Institut, Moscow.

Tr 11	-	_____. Tallin Politekhnicheskiy Institut, Tallin.
Tr 12	-	_____. Azerb. nauch. -issled. institut energetiki, Baku.
UFN	-	Uspekhi fizicheskikh nauk
VAN	-	Akademiya nauk SSSR. Vestnik
VAN UKrSSR	-	Akademiya nauk Ukrainskoy SSR. Vestnik
VLU	-	Leningradskiy universitet. Vestnik
ZhETF	-	Zhurnal eksperimental'noy i teoreticheskoy fiziki.
ZhETF P	-	Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki.
ZhPKh	-	Zhurnal prikladnoy khimii.
ZhPMTF	-	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki.
ZhTF	-	Zhurnal tekhnicheskoy fiziki.
ZhTF P	-	Pis'ma v Zhurnal tekhnicheskoy fiziki.